

RESOLUTION NO. 2017-25

A RESOLUTION OF THE VILLAGE COUNCIL OF THE VILLAGE OF KEY BISCAYNE, FLORIDA, AUTHORIZING THE VILLAGE MANAGER TO ISSUE A WORK ORDER TO EAC CONSULTING, INC. FOR ENGINEERING SERVICES RELATING TO THE FERNWOOD ROAD LIGHTING IMPROVEMENTS PROJECT; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Village of Key Biscayne (“Village”) issued Request for Qualifications No. 2016-02-09 (“RFQ”) for continuing professional engineering services; and

WHEREAS, pursuant to the RFQ, the Village Council selected EAC Consulting, Inc. (“Consultant”) as one of the consultants to provide continuing professional engineering services and authorized the Village Manager to execute an agreement with Consultant; and

WHEREAS, Consultant has provided a proposal, attached as Exhibit “A,” (the “Proposal”) for engineering services relating to the Fernwood Road Lighting Improvements Project (the “Project”); and

WHEREAS, the Village Council desires to authorize the Village Manager to issue a work order for the Project consistent with the proposal attached as Exhibit “A” and the professional services agreement entered into between the Village and Consultant; and

WHEREAS, the Village Council finds that this Resolution is in the best interest and welfare of the residents of the Village.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE VILLAGE OF KEY BISCAYNE, FLORIDA, AS FOLLOWS:

Section 1. Recitals Adopted. That each of the recitals stated above is hereby adopted and confirmed.

Section 2. Village Manager Authorized. The Village Manager is hereby authorized to issue a work order to Consultant for the Project that is consistent with the Proposal attached hereto as Exhibit "A" in an amount not to exceed \$40,149.15.

Section 3. Effective Date. That this Resolution shall be effective immediately upon adoption hereof.

PASSED and ADOPTED this 9th day of May, 2017.


MAYOR MAYRA PEÑA LINDSAY

ATTEST:


CONCHITA H. ALVAREZ, MMC, VILLAGE CLERK

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY


VILLAGE ATTORNEY



April 26, 2017

John C. Gilbert, jgilbert@keybiscayne.fl.gov,
Village Manager
Village of Key Biscayne
88 W. McIntyre St, Suite 210
Key Biscayne, FL 33149

Re: Engineering Design Services for Fernwood Lighting Improvements

Dear Mr. Gilbert:

EAC Consulting, Inc., as part of its Continuing Services Contract with the Village, respectfully submits this fee proposal to undertake the professional engineering services for developing plans and specifications for implementing new lighting along Fernwood

Statement of Work

Generally, our scope of work includes the following tasks:

- i. Development of an acceptable lighting level criteria, based on "night time" field investigation and measurements along Fernwood Drive, considering the tree canopy and taller buildings shade cover where applicable.
- ii. The development of plans illustrating the anticipated layout of proposed lighting fixtures.
- iii. A technical specifications package.
- iv. Provision and incorporation of design support documents consisting of a topography and route survey including subsurface utility engineering (SUE aka soft digs)
- v. Development of Opinion of Probable Construction Costs – This includes the development of construction costs based on recent historical cost trends. The prepared costs will include appropriate contingencies.
- vi. Procurement technical support including the Bid Package Compilation & Bid Assistance Services such as responding to bid inquiries, issuing revisions/addenda, bid review, and verification of bidders
- vii. Limited Construction Phase visits.

Schedule

Our preliminary schedule for completion is estimated as follows:

Field work and Lighting Investigation	NTP + 12 Weeks
Village Review	2 weeks
100% Design Plans and Technical Specifications	20 weeks after NTP (projected)
Village Review	2 weeks
Final Design Plans and Technical Specifications	24 weeks after NTP
Bid & Award Phase	TBD
Construction Phase	TBD

Deliverables

- 100% Design Plans and Specifications
- Bid Documents – Final Design Plans and Technical Specifications

Assumptions:

The following assumptions were made with consideration to the tasks enumerated in this proposal:

- a) Village staff will be available and present to discuss location of luminaires;
- b) Nighttime illumination measurements will be made with ample notice to the Village staff to inform residents and sidewalk users as to EAC's presence;
- c) Plans will consist of a cover sheet; summary of items sheet, tabulation of quantities, general notes, luminaire pole data, service point details, lighting layout plan sheet; special details, and restoration

notes.

- d) Cost estimate is limited to the new lighting installation.
- e) The Village shall provide standard front-end documents for the Bid package.
- f) It is anticipated that permitting will only be required by the Village Building Department.
- g) It is assumed that construction completion will take place within 16 weeks after project bid award with 4 site visits by EAC's electrical staff and civil staff to evaluate progress and conformity with the plans and specifications.

Compensation

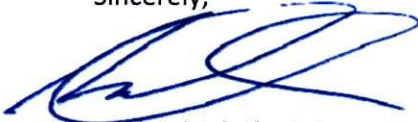
Compensation for the varying tasks is on a lump sum basis that based on the following breakdown and will be invoiced on a percentage basis in accordance with the completion at the time of billing.

Task Area	
Field work and Lighting Investigation	\$2,025.00
100% Design Plans and Technical Specifications and Permitting	\$21,270.00
Bid & Award Phase	\$2,220.00
Limited Construction Support Services	\$2,790.00
Sub-total	\$28,305.00
Expenses (3%)	\$849.15
Sub-Total (Salary Costs):	\$29,154.15
Surveying Services	\$9,000.00
Geotechnical Services	\$1,995.00
Sub-Total (Technical Support Services):	\$10,995.00
Total Compensation for this Work Order:	\$40,149.15

It is our understanding that the statement of work will be undertaken under a work order to be issued subject to the terms and conditions of the professional services agreement, dated May 20th, 2016 entered into between the Village and EAC Consulting, Inc. We are ready to begin working on this assignment. If the above fee proposal and the terms above are acceptable to you, please provide us with a Work Authorization/ Work Order. Please feel free to contact me if any clarifications are required.

Thank you for the opportunity to be of service to the Village of Biscayne.

Sincerely,



Michael Adeife, P.E
Senior Vice President

cc: File
Todd Hofferberth (VKB),
Oscar Rubio (EAC) and Huntley Higgins (EAC)

AGREED AND ACCEPTED

By: _____ Date _____
John Gilbert, Village Manager
_____, 2017
Notice to Proceed Date

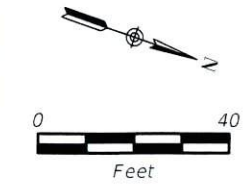
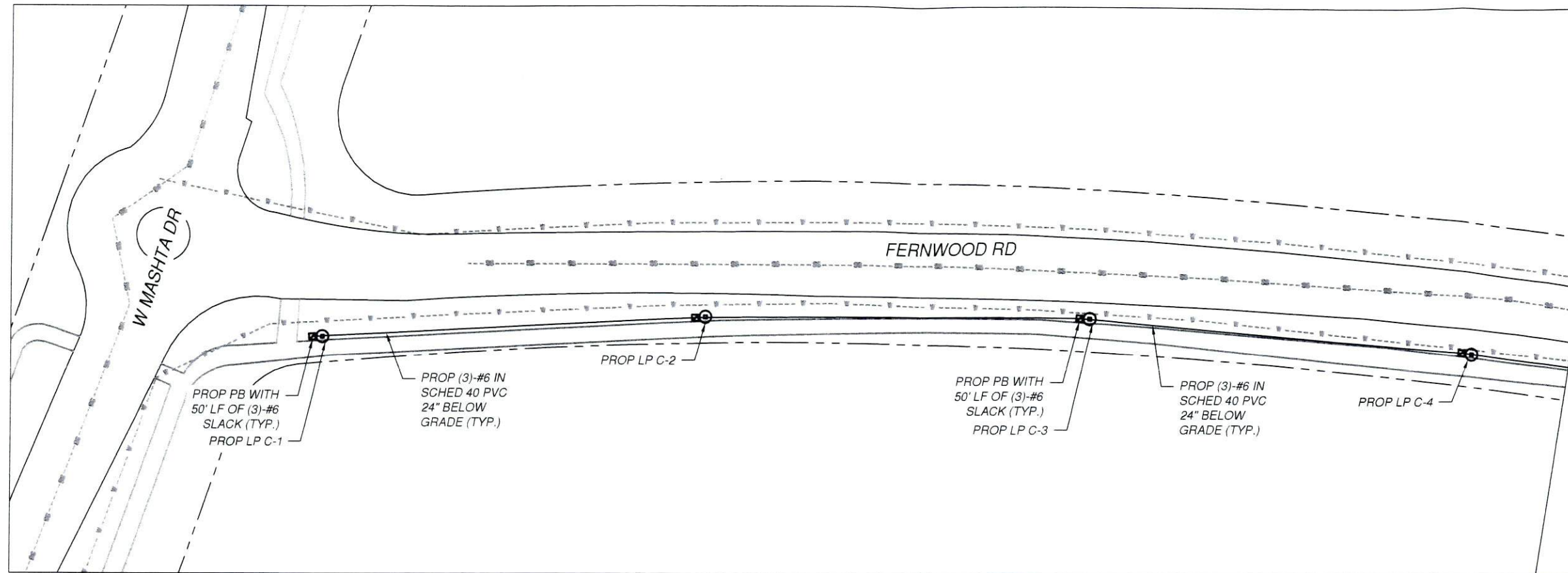
ESTIMATE OF WORK EFFORT AND COST

Client:
Name of Project:
County:

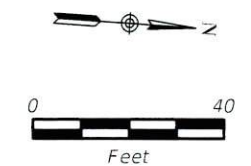
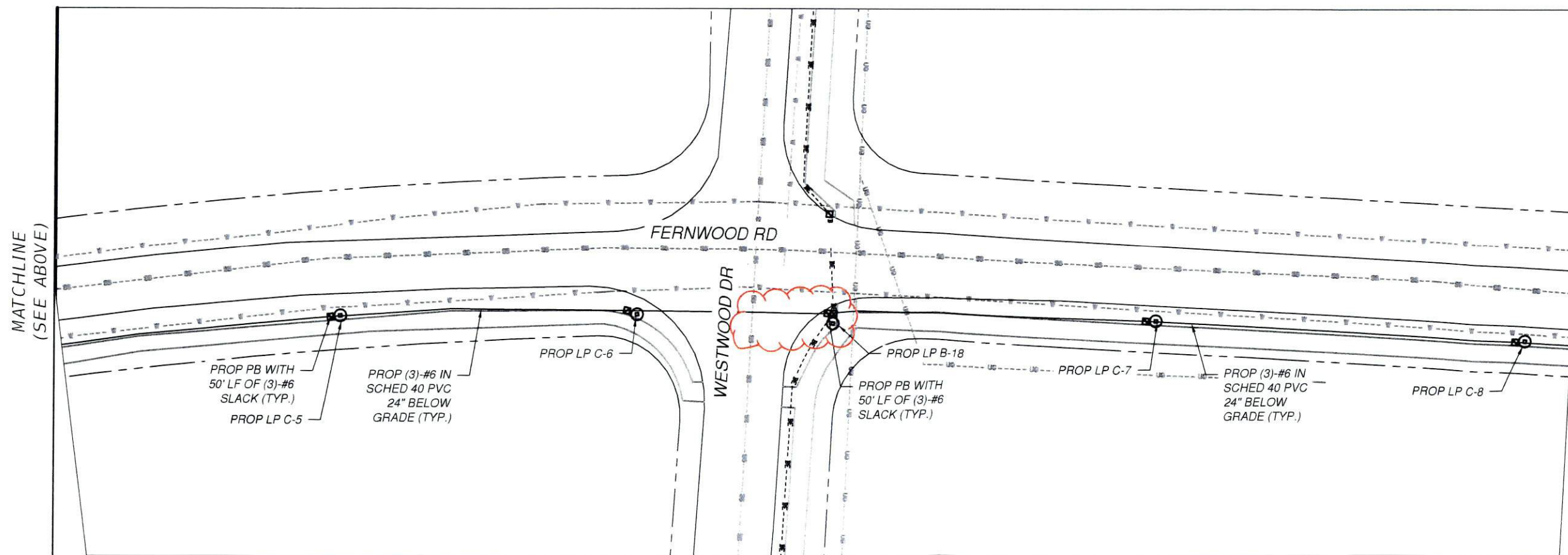
Village of Key Biscayne
Fernwood Lighting
Miami-Dade

Consultant Name: EAC Consulting, Inc.
Consultant No.: 16008.SD01-06
Date: 4/26/2017

Project Tasks		Principal QA QC	Civil EOR	Civil Design Eng	Electrical EOR	Electrical Design Eng	Hours by Activity	Salary Cost by Activity
		\$202.00	\$195.00	\$105.00	\$195.00	\$105.00		
Task 1:	Project General and Common Tasks							
	Lighting Analysis				5	10	15	\$2,025.00
	Lighting Plans and Permitting		8	12	30	120	170	\$21,270.00
	Bid & Award		4		2	10	16	\$2,220.00
Task 2:	Limited Construction Site Visits		2		8	8	18	\$2,790.00
	Total Staff Hours		14	12	45	148	219	
	Total Staff Cost		\$2,730.00	\$1,260.00	\$8,775.00	\$15,540.00		\$28,305.00
		SALARY RELATED COSTS:						\$28,305.00
		EXPENSES (3%):						\$849.15
		SUBTOTAL ESTIMATED FEE:						\$29,154.15
		Longitude Surveying, LLC						\$9,000.00
		GCES Engineering Services, Inc. (Geotechnical)						\$1,995.00
		GRAND TOTAL ESTIMATED FEE:						\$40,149.15



MATCHLINE
(SEE BELOW)



MATCHLINE
(SEE ABOVE)

MATCHLINE
(SEE L-3.1)



VILLAGE OF
KEY BISCAYNE
88 WEST McINTYRE STREET
KEY BISCAYNE, FL 33149
www.keybiscayne.fl.gov

CONSULTANT.



EAC Consulting, Inc.
815 N.W. 57TH AVE, SUITE 402
MIAMI, FL 33126
PH: 305-265-5400
CA # 7011
EAC PROJECT No. 15008.SD01-02



PROJECT:

**PHASE V
VILLAGEWIDE
LIGHTING
IMPROVEMENTS**

KEY MAP

[illegible]

DATE ISSUED: AUGUST 17, 2016

DESIGNED BY: RB

DRAWN BY: SC

REVIEWED BY: RB

SEAL:

RAMON BORGES, P.E.
FL LICENSE No. 61622

SHEET TITLE:

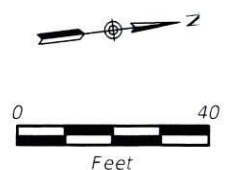
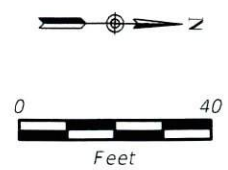
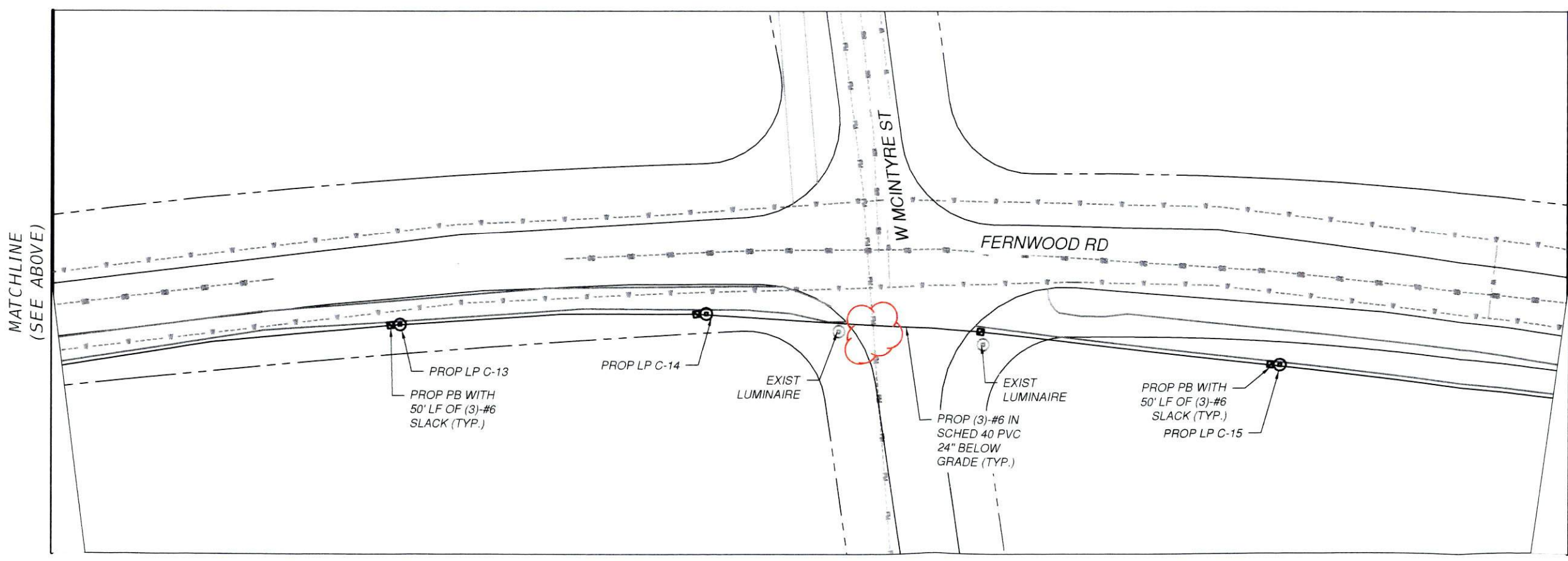
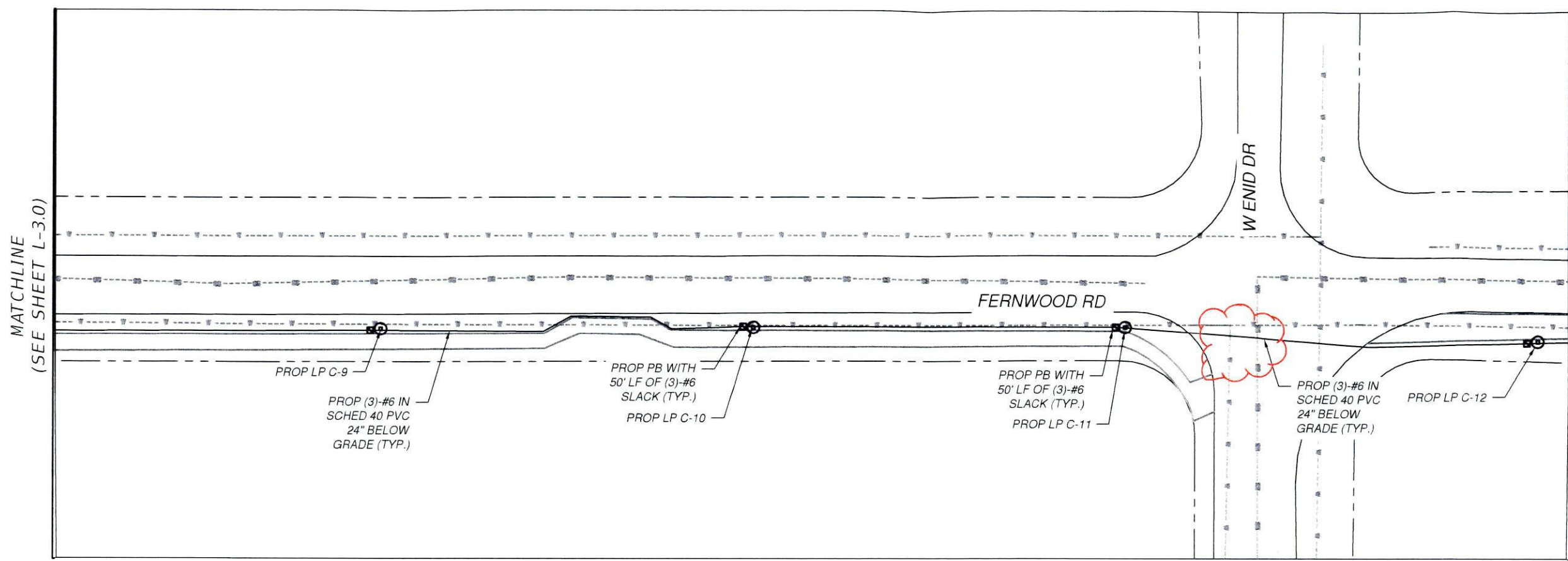
FERNWOOD BLVD
LIGHTING
PLANS

SHEET NO. _____

-3.0

SHEET 12 OF 17

DESIGN CRITERIA P.I.D



VILLAGE OF
KEY BISCAINE
88 WEST MCINTYRE STREET
KEY BISCAINE, FL 33148
www.keybiscayne.fl.gov

CONSULTANT
EAC
EAC Consulting, Inc.
815 N.W. 57TH AVE, SUITE 402
MIAMI, FL 33126
PH: 305-265-5400
CA # 70111
EAC PROJECT No. 15008.SD01-02



PROJECT
**PHASE V
VILLAGEWIDE
LIGHTING
IMPROVEMENTS**

KEY MAP:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DATE ISSUED: AUGUST 17, 2016
DESIGNED BY: RB
DRAWN BY: SC
REVIEWED BY: RB

SEAL

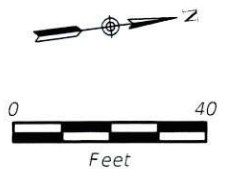
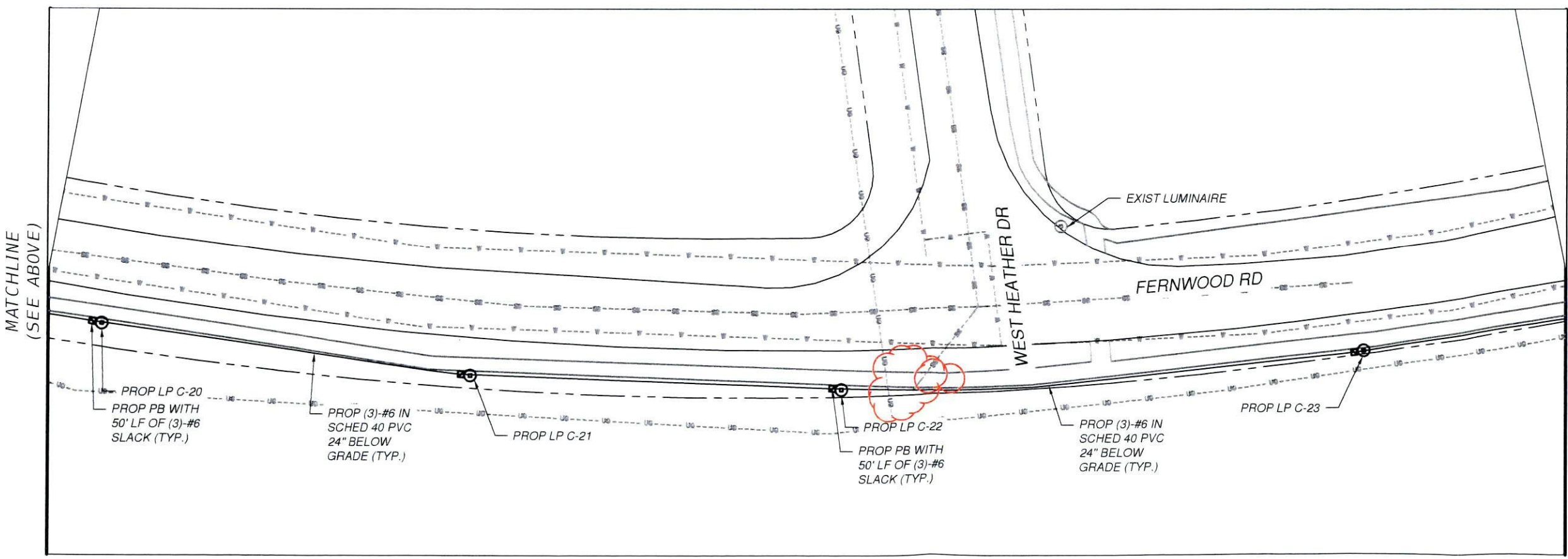
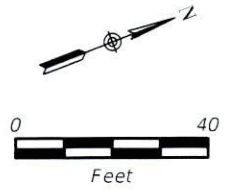
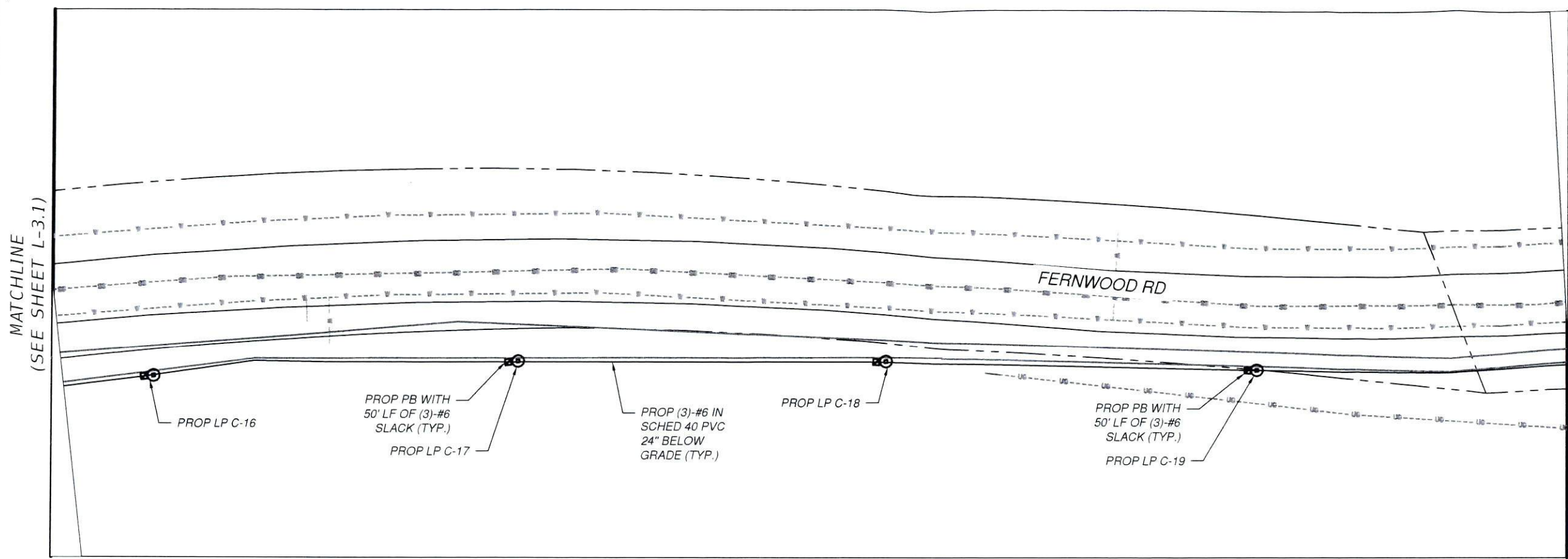
RAMON BORGES, P.E.
FL LICENSE No. 61622

SHEET TITLE
**FERNWOOD BLVD
LIGHTING
PLANS**

SHEET NO.
L-3.1
SHEET 13 OF 17

DESIGN CRITERIA P.I.D

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VILLAGE OF
KEY BISCAYNE
88 WEST McINTYRE STREET
KEY BISCAYNE, FL 33149
www.keybiscayne.fl.gov

CONSULTANT
EAC
EAC Consulting, Inc.
815 N.W. 57TH AVE. SUITE 402
MIAMI, FL 33126
PH: 305-265-5400
CA # 7011
EAC PROJECT No. 15008.SD01-02



PROJECT:
**PHASE V
VILLAGEWIDE
LIGHTING
IMPROVEMENTS**

KEY MAP:

REVISIONS:

NO.	DESCRIPTION	DATE	BY

DATE ISSUED: AUGUST 17, 2016
DESIGNED BY: RB
DRAWN BY: SC
REVIEWED BY: RB
SEAL:

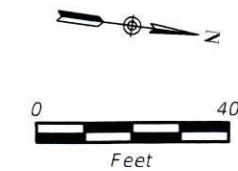
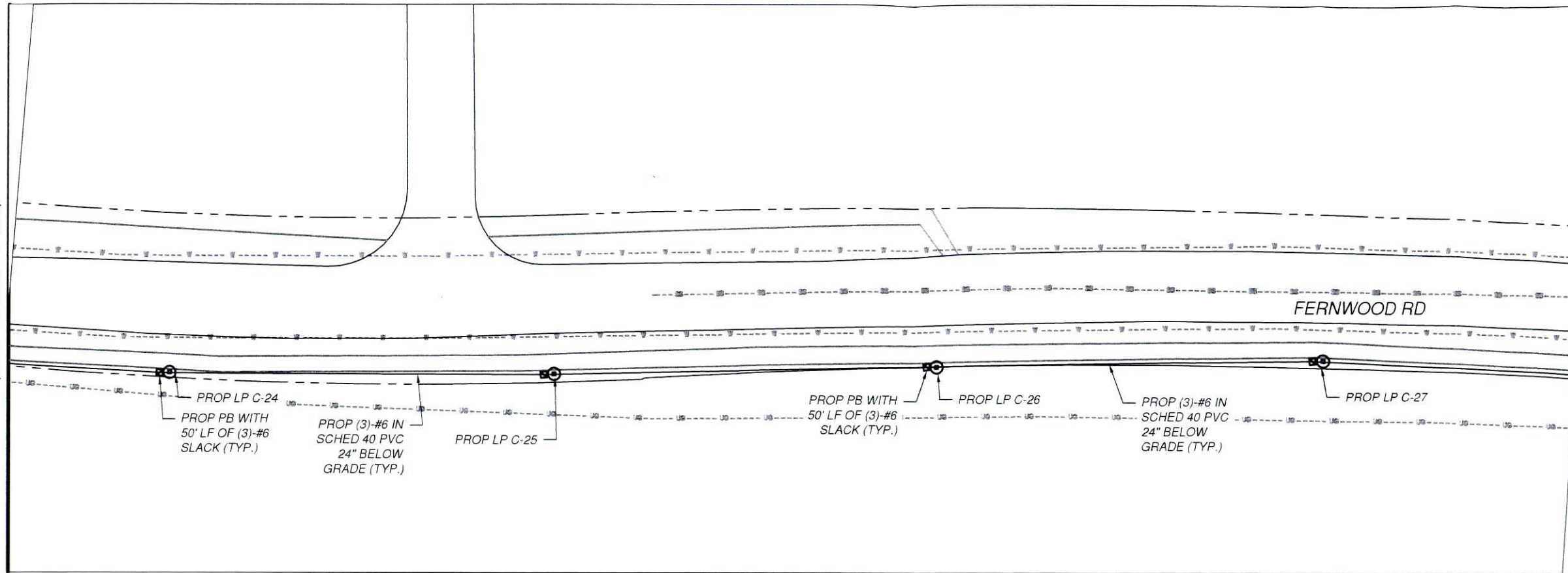
RAMON BORGES, P.E.
FL LICENSE No. 61622

SHEET TITLE:
**FERNWOOD BLVD
LIGHTING
PLANS**

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SHEET 14 OF 17
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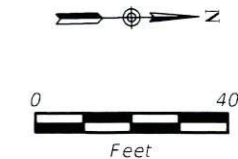
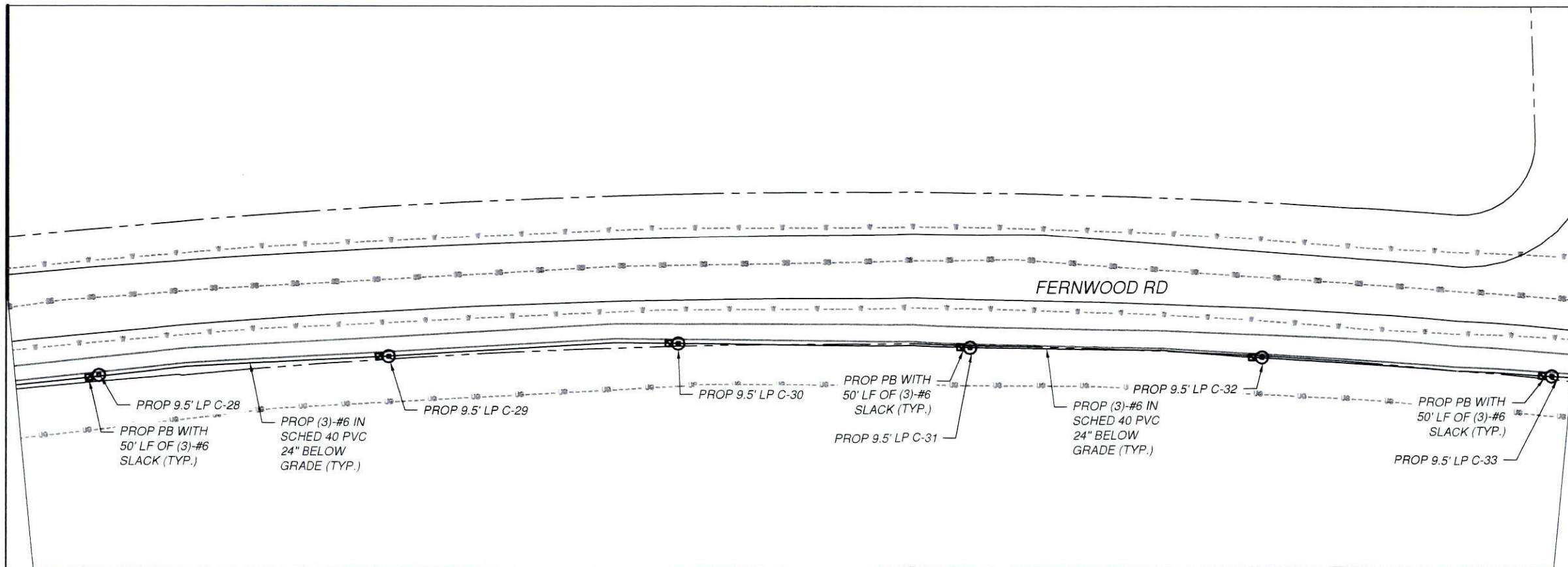
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MATCHLINE
(SEE SHEET L-3.2)



MATCHLINE
(SEE BELOW)

MATCHLINE
(SEE ABOVE)



MATCHLINE
(SEE L-3.4)



VILLAGE OF
KEY BISCAINE
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www.keybiscayne.fl.gov

CONSULTANT



EAC Consulting, Inc.
815 N.W. 57TH AVE, SUITE 402
MIAMI, FL 33126
PH: 305-265-5400
CA # 7011

EAC PROJECT No. 15008.SD01-02



PROJECT

PHASE V VILLAGEWIDE LIGHTING IMPROVEMENTS

KEY MAP

REVISIONS

NO.	DESCRIPTION	DATE	BY

DATE ISSUED: AUGUST 17, 2016

DESIGNED BY: RB

DRAWN BY: SC

REVIEWED BY: RB

SEAL

RAMON BORGES, P.E.
FL LICENSE No. 61622

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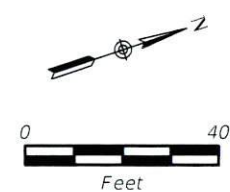
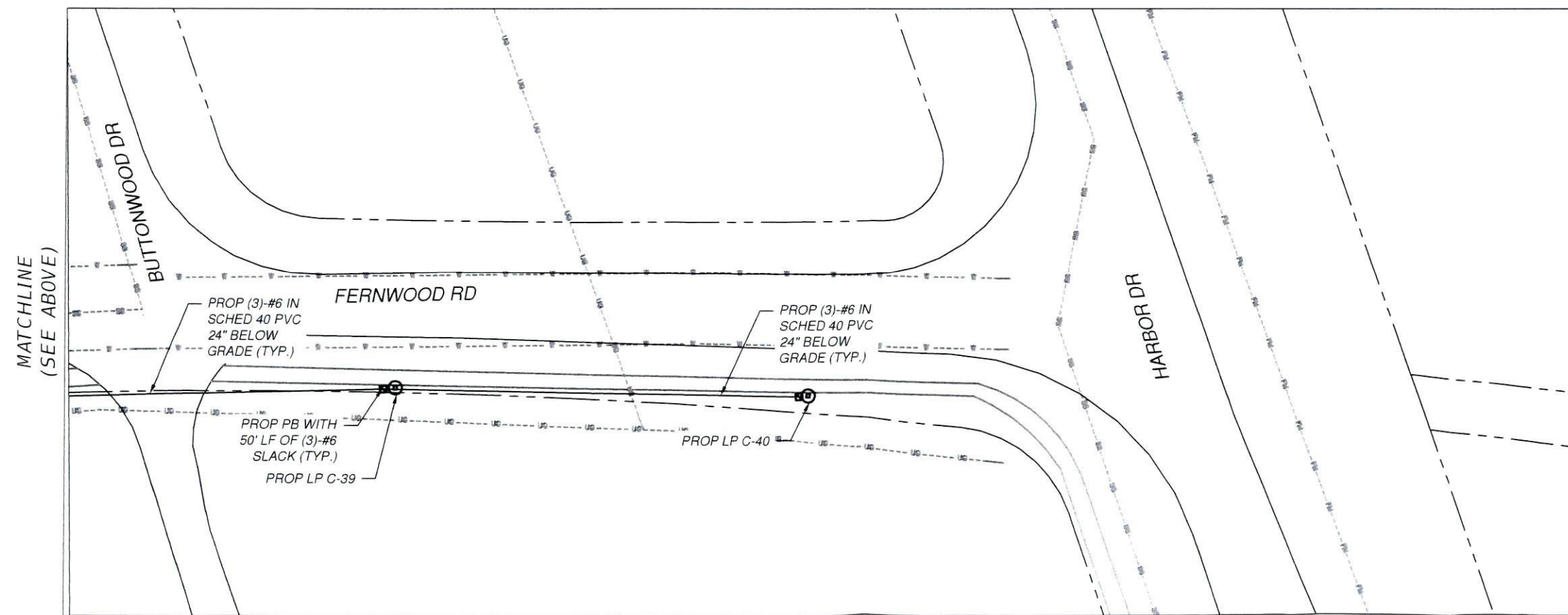
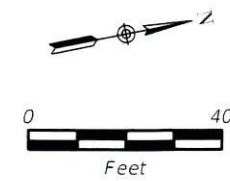
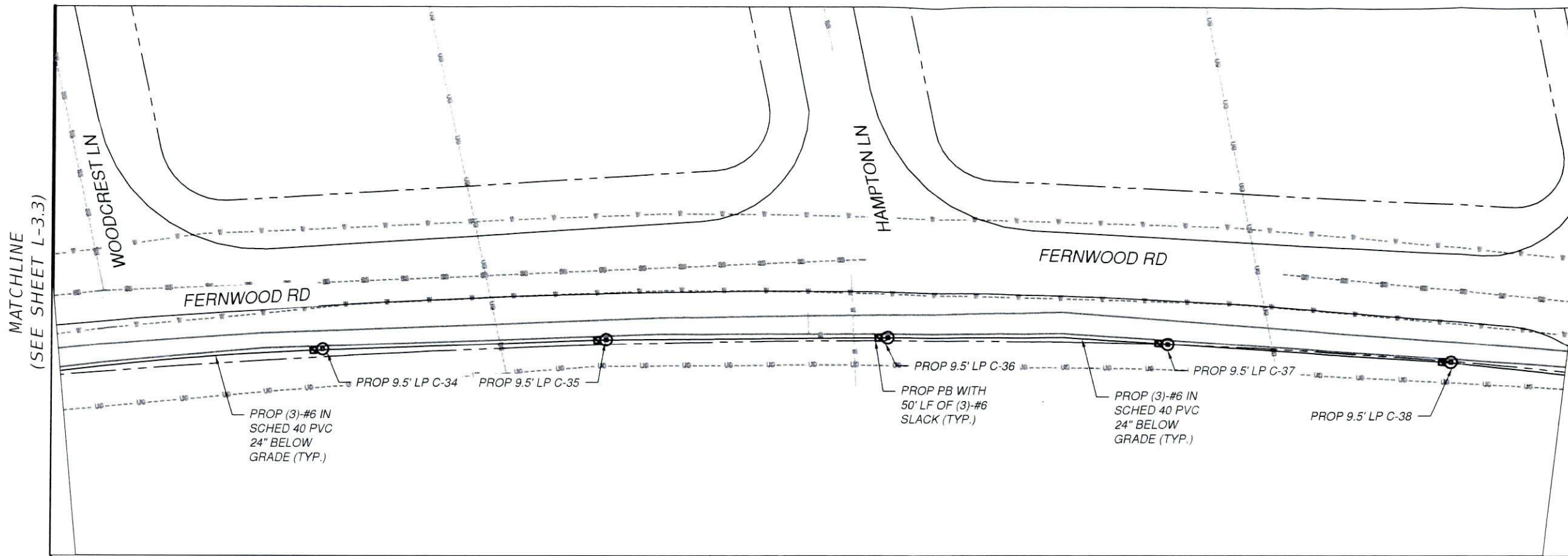
FERNWOOD BLVD LIGHTING PLANS

SHEET NO.

L-3.3

SHEET 15 OF 17

DESIGN CRITERIA P.I.D



VILLAGE OF
KEY BISCAYNE
88 WEST McINTYRE STREET
KEY BISCAYNE, FL 33149
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815 N.W. 57TH AVE, SUITE 402
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PH: 305-265-5400
CA # 7011
EAC PROJECT No. 15008.SD01-02



PROJECT:
**PHASE V
VILLAGEWIDE
LIGHTING
IMPROVEMENTS**

KEY MAP:

REVISIONS:

NO.	DESCRIPTION	DATE	BY

DATE ISSUED: AUGUST 17, 2016
DESIGNED BY: RB
DRAWN BY: SC
REVIEWED BY: RB
SEAL

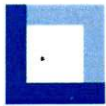
RAMON BORGES, P.E.
FL LICENSE No. 61622

SHEET TITLE:
**FERNWOOD BLVD
LIGHTING
PLANS**

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SHEET 16 OF 17

DESIGN CRITERIA P.I.D

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Friday, April 14, 2017

VIA EMAIL: orubio@eacconsult.com
FERNWOOD ROAD

Mr. Oscar L. Rubio, P.E.
Senior Project Manager
EAC Consulting, Inc.
815 NW 57th Avenue, Suite 402
Miami, FL 33126

RE: Surveying services for the Street Lighting Project Village of Key Biscayne, FL

Dear Mr. Rubio,

Pursuant to your request regarding a fee estimate for surveying services for the above referenced project, LONGITUDE SURVEYORS, LLC is pleased to submit the following proposal for your consideration.

A. Scope of Work:

Longitude will perform a Topographic Survey to include the following:

- LS will locate the following: edge of pavement, sidewalks, driveway approaches, trees, paved areas, utility castings, curb and gutters, signs, utility poles, walls, fences, and all other significant above ground features within the survey limits.
- The only tree information that will be provided for the trees is the canopy.
- LS will collect elevations at 100-foot cross sections
- All elevations will be referenced to the National Geodetic Vertical Datum of 1929 (NGVD29).
- All control points will have Northing and Easting coordinates referenced to the Florida State Plane Coordinate System, based on the North American Datum of 1983/2011.
- SUE is not a part of this proposal.

B. Survey Limits:

Along Fernwood Road from West Mashta Drive to Harbor Drive. The limits of the survey will be limited from the west edge of pavement to the easterly right of way of Fernwood Road. Only the easterly right of way of Fernwood Road will be determined. The one exception to the limits will be the collection of "only" trees located on the west parkway of Fernwood Road. (See attached).

C. Deliverables:

LS will provide original signed and sealed hard copies, along with corresponding electronic files.

D. Timeline:

Longitude has estimated fifteen business days to complete the projects.

E. Fee:

The professional fee to complete the Topographic Survey and SUE (designation) shall be the lump sum of: **\$9,000.00.**

I understand and agree by signing below "I APPROVE AND ACCEPT" this proposal as a legal binding contract.

By: _____
(Authorized Signature)

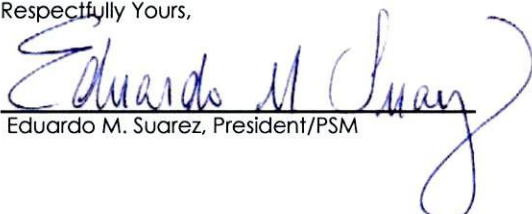
Date: _____

(Typed or printed name)

Title: _____

On behalf of the firm, I thank you for the opportunity to submit this proposal. We look forward to utilizing our best professional efforts on your behalf on this very important project.

Respectfully Yours,


Eduardo M. Suarez, President/PSM

April 6, 2017

Oscar L Rubio, P.E.
Senior Project Manager
EAC Consulting, Inc.
5100 NW 33rd Avenue, Suite 243
Ft. Lauderdale, FL 33309

Cell: 786 300 7266
Main: 305-265-5400
Fax: 305-264-8363
Email: orubio@eacconsult.com

Subject: Proposal/Agreement for Geotechnical Engineering Services
Street Lighting Improvements Project – Fernwood
Village of Key Biscayne, FL 33149
GCES Proposal No. P10-0417001

Dear Oscar:

GCES Engineering Services, LLC (GCES) is pleased to present this proposal/agreement for performing geotechnical engineering services for the above referenced site.

GCES understands that the project involves the improvement of streets lighting in the Village of Key Biscayne. We understand that the lighting improvements will be done along Fernwood in the Village of Key Biscayne from West Mashta Drive to Harbor Drive. The light poles will be installed at approximately the back of sidewalks or at the same offset where there is no sidewalk. It is our understanding that a geotechnical exploration is required for the design of lighting poles installation. Per our discussion, initial plan is to perform test borings along Fernwood near the following intersections:

- W Mashta Drive,
- W Enid Drive;
- W McIntyre Street;
- West Heather Drive;
- Woodcrest Lane
- Hampton Lane.

Test boring locations may change depending upon utility locations at the planned boring locations.

If the information herein is not accurate, please inform us immediately. Based on your request for proposal, and our understanding of the project, we propose the following scope of work and fee schedule.

SCOPE OF SERVICES

Field Exploration

The purpose of the geotechnical services is to obtain subsurface soil data to characterize subsurface and groundwater conditions and provide recommendations for foundation or on-grade structures associated with the lighting improvement project. These services will include field and laboratory testing programs. The field program will consist of providing the following services:

- Site Reconnaissance: A geotechnical specialist will conduct a site reconnaissance prior to the subsurface exploration. The site reconnaissance will note surface features that may impact or require consideration regarding the planned subsurface exploration.
- Subsurface Exploration: GCES will perform a total of six (6) Standard Penetration Test (SPT) borings to depths of 15 feet below ground surface (drilling program of approximately 90 feet) below the existing ground surface.
- Sampling: Sampling of the test borings will be conducted in general accordance with ASTM D1586 standards. Continuous samples are typically obtained in the top 10 feet, and one sample is generally obtained every 5 feet for the remaining depth of the boring.

Materials encountered at the test locations will be identified in the field from SPT Spoon sampling. Upon completion of drilling the borings and observation of groundwater levels the boreholes will be backfilled with soil cuttings.

Underground Utilities, Site Access and Boring Locations

Items to be provided by the client include the right of entry to conduct the exploration and an awareness and location of any subsurface utilities existing in the area, including those privately held and/or not members of Sunshine State One Call of Florida (SSOCOF). Also, if there are any other restrictions or special requirements regarding this site or exploration, these should also be known prior to our commencing fieldwork.

EAC Consulting, Inc.
Street Lighting Improvements Project – Fernwood
Village of Key Biscayne
GCES Proposal No. P10-0417001

We will contact SSOCOF regarding location of underground utilities at the project site. By state law, the utility locator services are afforded a minimum of 2 full business days to clear or locate and mark utilities prior to commencement of drilling. Please note, however, that the utility locating service can locate utilities within public rights-of-ways and easements, but generally is not able to locate privately owned utilities. Therefore, GCES is not responsible to the extent of any loss, damage, or injury caused by the failure to locate a utility properly or by inaccurate and/or incomplete information provided by others.

This proposal is based on the boring locations being accessible to a conventional truck mounted drill rig without any clearing being necessary, no permit is required to perform our field work and the work can be performed during normal business hours. Boring layout will be approximate with distances and right angles measured from available site features. The boring locations will be marked in the field by GCES personnel using layout procedures. Please note that we may be required to shift our planned boring locations depending upon utility locations at the planned boring locations. The surveying of the boring locations and elevations is not included in the geotechnical scope of work. Approximate elevations can be estimated from the contours of a topographic site plan, if provided.

Laboratory Testing

In the laboratory where appropriate, moisture, organic content and other classification tests (i.e. grain size analysis, #200 sieve wash) will be performed on representative split-barrel samples to aid in classification. Soil samples will be visually classified in general accordance with the Unified Soil Classification System (USCS). Laboratory testing on rock samples is not included in our scope of services.

Engineering Analysis and Report

After completion of the field and laboratory testing programs, the data and conditions will be analyzed and a report will be prepared by or under the supervision and be signed and sealed by a registered professional engineer in the state of Florida. This report will contain the following:

- A brief review of our test procedures and the results of testing conducted;
- A summary of the area and site geologic conditions;
- Review of the county soil survey map;
- Anticipation of groundwater control; and
- Review field and laboratory data, and then evaluate said data to provide recommendations for the improvement lighting project based on the anticipated construction and boring results. Recommendations will include soil bearing capacity, groundwater considerations, settlement evaluation and construction considerations.

Two (2) copies of the geotechnical engineering report will be delivered.

COMPENSATION

Based on a single mobilization of the required personnel to and from the site, and the work scope outlined herein, we will perform the geotechnical engineering services for an estimated cost of **\$1,995.00** as outline below:

I.	<u>Field Exploration</u> – Includes six (6) SPT test borings to depths of 15 feet below existing grade, boring layout and underground utilities clearance coordination.	\$955.00
II.	<u>Laboratory</u> - Visually examine all recovered soil/rock samples in the laboratory, perform a limited number laboratory tests on select representative samples.	\$250.00
III.	<u>Engineering Analysis and Report</u> - includes evaluation of data and conditions of the field and laboratory testing programs and a report prepared by or under the supervision of a registered professional engineer in Florida. Two copies will be provided.	\$790.00
TOTAL		\$1,995.00

If poor subsurface conditions are encountered which warrant additional work, we will contact you to discuss the conditions and together determine how best to proceed. Unless otherwise instructed, invoices will be submitted to your attention. The fee is valid for 90 days from the date of this proposal. If the assumptions listed herein are not valid, there may be additional charges.

SCHEDULE

Once the Agreement for Services is signed and received by GCES, commencement of the work will begin. In some instances, we can proceed with verbal approval; however, written authorization should still follow prior to our mobilization to the site. We anticipate that field services will be completed in approximately one to two working days of receipt of your written notice to proceed assuming that we will be allowed to perform the field work as a continuous effort and normal weather conditions; and that utilities are cleared by the locating services in a timely fashion. Our engineering report will be submitted within approximately five to seven working days after completion of the field exploration.

EAC Consulting, Inc.
Street Lighting Improvements Project – Fernwood
Village of Key Biscayne
GCES Proposal No. P10-0417001

This proposal may be accepted by executing the signature page of this proposal and returning an executed copy to GCES. The terms, conditions and limitations stated in the attached Agreement for Services (and sections of this proposal incorporated therein), shall constitute the exclusive terms and conditions and services to be performed for this project.

GCES Engineering Services, LLC. appreciates the opportunity to present this proposal. We look forward to working with you on this and future projects.

Respectfully,

A handwritten signature in cursive script, appearing to read "Alejandro R. Montenegro".

Alejandro R. Montenegro, PE
President\CEO